APPENDIX D Bacteria Testing Reports

Truesdail Laboratories, Inc.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

14201 FRANKLIN AVENUE TUSTIN, CALIFORNIA 92780-7008 (714) 730-6239 · FAX (714) 730-6462 www.truesdail.com

Report Date:

11/4/02

City of San Bernardino 300 North D Street

Date Received:

10/31/02

San Bernardino, CA 92402 Attn: Con Arrieta

Laboratory No.:

910717

1 Drinking Water

Project: Elco Chlorination Project C.O. #8737 12" Main

Collection Date:

10/31/02

Technician:

Con Arrieta

Analysis Date:

10/31/02

Time: 1645

Time:

Coliform Test

Completion Date:

11/1/02 11/4/02

Time:

1130 0700

HPC, PCA, 4 Days @ 35°C

Investigation: Chromogenic Substrate Coliform Test APHA Standard Methods for the Examination of Water and Wastewater, 18th Ed., 1992 Method 9223B Collert 18 Hour Presence/Absence; Heterotrophic Plate Count, SM 9215B

RESULTS

	Sample			Sam.	Chlo	orine	Coliform Bacteria	Plate
No	Time (24 Hr.)	Sample Location	Temp	Type ***	Residua Total	al (mig/L) Æree	Presence/Absence Per 100 mls	Count CFU**/ml
No.	(24 (11.)	Location	-	<u> </u>	7 0 .0.1			
НО	1500	2" Flush Port @ Home	na	2SP	na	0.4	Absent*	5
		Street Well Site						
į į			į	[<u> </u>

^{*}None detected

Respectfully submitted, Truesdail Laboratories, Inc.

Sherron Leno

Senior Microbiologist

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^{**}Colony-forming units

^{***}Sample Type: 2SP=Distribution Special

		1(D) !	CLINICAL HABO	RATORY	OF SAN	3ERN/	ARDINC), INC		
SET UP TIME	HOURS			P.C). Box 329					X PLATE COUNT
16:15	6.75	QU	The second of the second	San Bernardi	no, Californ	iia 92402	<u>!</u>			L!
WERE HOLDING	<u></u>	DATE	12-22-02							X COLILERT
(YES)	NO	фCO _	COLIF	ORM BAC	TERIA R	EPOR	TFOR	۷Ĭ		
The same of the sa	*************************************									10 TUBE METHOD
REPORT DATE:	11/6/02	DIR	UB 1-9-05 SYSTEM NAME:	City of Sa	an Berna	ardino	MWD	SYSTEM	NUMBER: _	
LABORATORY:	CLINICAL LA	EIPERT	BERNARDINO, INC.	ELAP#	1088	S	IGNATURE C			
DATE SAMPLED:	11/4/02		SAMPLER: Con Arri	eta			EMPLO	YED BY:	City of	San Bernardino
LABORATORY	COLLECTION	BOTTLE			TOTAL/FREE	SAMPLE	TOTAL	FECAL	PLATE	
D. NUMBER (.3B USE ONLY)	TIME	NUMBER	SITE NAME/STREET ADI	DRESS .	CHLORINE (mg/L)	TYPE •	COLIFORM	E.coli	COUNT (Per 1 ml)	REMARKS
131	09:27	J1	F/H Mt. Vernon & 14th	Street	0.4		Α	**************************************	2	
			Project: Elco Chlorinat	ion						
			Project C.O. # 8737							
			-							andro agus ann an tagair a tha ghean an tagair an tagair an tagair agus an tagair agus an tagair an tagair an a
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(<i>*</i> .									
		- 				<u> </u>				
				**************************************	1.00					
				——————————————————————————————————————						
' 1=ROUTINE		· W=WELL	P=PRESENT	· · · · · · · · · · · · · · · · · · ·	NOTI	FICATION	REQUIRED?	(YES)	NO	
2=REPEAT		D=DISTRI	IBUTION A=ABSENT						•	
3=REPLACEMENT	Γ	SYSTE	M	PHONE #	(909) 384-513	9	READ BY:	M.C.		SET UP BY: P.W.
4=SPECIAL			·	1					•	
ALL TESTING IS	CONDUCTED IN A	CCORDANC	E WITH USEPA'S	PERS	ON NOTIFIED:	_		·····	DATE STA	RTED: 11/4/02
GUIDELINES 40 C	FR PART 141 AS P	UBLISHED I	N THE FEDERAL							
REGISTER, V	57, NO. 112, DATE	ED 10 JUNE	1992	DATE/T	NOTIFIED:			DA:	TE/TIME FINI	SHED: 11/5/02

The second secon

,			CLINICAL LABOR.	ATORY	^ SAN	BERN	ARDIN	D, INC	Ċ.				
12:30	HOURS 2		Sa		X PLATE COUNT								
WERE HOLDING YES	NO	_	COLIFORM BACTERIA REPORT FORM										
REPORT DATE:	12/23/02		SYSTEM NAME:	City of S	an Berna	ardino	MWD	SYSTEM	NUMBER:	10 TUBE METHOD			
DATE SAMPLED:	12/21/02		I BERNARDINO, INC. SAMPLER: Eric Dalpia	ELAP#	1088		SIGNATURE (f San Bernardino			
LABORATORY T). NUMBER (CLSB USE ONLY)	COLLECTION TIME	BOTTLE NUMBER	SITE NAME/STREET ADDRE	SS	TOTAL/FREE CHLORINE `_(mg/L)	SAMPLE TYPE	TOTAL COLIFORM	FECAL E.coli	PLATE COUNT (Per 1 ml)	REMARKS			
11	10:03	19-1	Sample Port @ 19th St. Pl	ant	.5		А		65				
12	10:23	19-2	Sample Port @ 16th & Per	ınsylvania	.5		А		42				
13	10:37	19-3	Sample Port @ and Magno	olia	.5		А		23	QUALITY SHIRT			
										DATE 1-21-03			
			Project: C.O.# 8737- El Co	30"						100			
			Pipeline Disinfection							/ ^ -			
					·					117/01/201-29-07			
						<u></u>			ļ	LED BY			
· 1=ROUTINE		W≃WELL	P=PRESENT				1			region or analysis designs produce and a second of history and analysis and a second or a			
2=REPEAT		D=DISTRIE			NOTIF	-ICATION F	REQUIRED?	(YES)	NO				
3=REPLACEMENT 4=SPECIAL		SYSTEM	Λ	PHONE #	<u>(909) 384-5139</u>		READ BY:	M.C.		SET UP BY: P.W.			

ALL TESTING IS CONDUCTED IN ACCORDANCE WITH USEPA'S
GUIDELINES 40 CFR PART 141 AS PUBLISHED IN THE FEDERAL
REGISTER, VOL. 57, NO. 112, DATED 10 JUNE 1992

PERSON NOTIFIED: _____ DATE STARTED: 1221/02

DATE/TIME NOTIFIED. DATE/TIME FINISHED: 12/22/02

CLINICAL LABORATORY OF SAN BERNARDINO, INC.

SET UP TIME	HOURS			P.O	. Box 329					X PLATE COUNT
16:30	4 1/4		S	an Bernardir	no, Californ	ia 92402	2			
WERE HOLDING T	IMES MET?							_		X COLILERT
YES	NO -		COLIFO	10 TUBE METHOD						
			•	0 :4 (0		م منالين	N N N / I''			[] TO TOBE METHOD
	2/16/03		SYSTEM NAME:							
LABORATORY:			BERNARDINO, INC.	ELAP#	1088	`	SIGNATURE C	OF LAB DI	City o	f San Bernardino
DATE SAMPLED:	2/14/03		SAMPLER: Eric Dalpi	az					PLATE	OF ENTERBOOKS AND THE PROPERTY OF THE PROPERTY
LABORATORY	COLLECTION	BOTTLE	SITE NAME/STREET ADDR	ECC	TOTAL/FREE CHLORINE	SAMPLE TYPE	TOTAL COLIFORM	FECAL E.coli	COUNT	REMARKS
). NUMBER (CLSB USE ONLY)	TIME	NUMBER	SITE MANUE/STREET ADDR		(mg/L)				(Per 1 ml)	
47	04:40	1PO	Flushing Port @ 9th Stre	et	:7		A		24	The state of the s
			& H Street							
48	12:55	2PO	Flusing Port @ 10th Stre	et	.6		A		7	
			& H Street End of Street							
49	12:45	3PO	Fire Hydrant @ 13th St.	&	.4		A		<1	
			G Street						ļ	
D) E G	EIVE	lp)						ļ		DECENTER
									İ	HI HOUMATER OUALITY
QUALI	IV COMUROL		Project: Elco Nev	w Drain					<u>'</u>	Geografica Gracia
DATE_3			line Disinfection (Co.#						(*)
2CO			87'37							
^										CA OF SAMEERNAL .
DIR LAS	13-31-0	3								2597
FILED BY_										
1=ROUTINE		, M=MEri	. P=PRESENT		ГОИ	TIFICATIO	N REQUIRED	? (YES)	ON (
2=REPEAT		D=DISTF	IBUTION A=ABSENT							D 14/
3=REPLACEMEN	17	SYST	EM	PHONE	# (909) 384-51	<u>39</u>	READ BY	ivi.C	•	SET UP BY: P.W.
4- SPECIAL				nr o	CONMINITE	٦٠			DATE S	TARTED: 2/14/03
•	CONDUCTED IN A		ļ	PEK	SON NOTIFIEI	J. 				TANKE TO STATE OF THE PARTY OF
	CFR PART 141 AS F		į	DATE/	TI. IOTIFIEI	D:		D	ATE/TIME P	INISHED: 2/15/03
REGISTER, Vo	7, NO. 112, DAT	CD 10 30141	_ 1004	(J. () C						

TRUESDAIL LABORATORIES INDEPENDENT TESTING, FORENSIC SCIENCE, AND DVIRDING Established 1931 14201 FRANKLIN AVENUE QUAIREPORTOL TUSTIN, CALIFORNIA 92780-7008 (714) 730-6239 · FAX (714) 730-6462 www.truesdail.com City of San Bernardino Report Date: 3/4/03 300 North D Street San Bernardino, CA 92402 Date Received: 2/26/03 Attn: Con Arrieta Laboratory No.: 914887 2 Drinking Waters Project: ELCO Pipeline Disinfection C.O. 8737 Collection Date: 2/26/03 Technician: Con Arrieta Analysis Date: 2/26/03 Time: 1940 Completion Date: 2/27/03 Time: 1200 Coliform Test

Investigation: Chromogenic Substrate Coliform Test <u>APHA Standard Methods for the Examination of Water and Wastewater</u>, 18th Ed., 1992 Method 9223B Colilert 18 Hour Presence/Absence; Heterotrophic Plate Count, SM 9215B

2/28/03

RESULTS

Time:

1830

HPC, PCA, 48 Hrs. @ 35°C

	Sample			Sam.	Chlorine		Coliform Bacteria	Plate
	Time	Sample		Туре	Residual (mg/L)		Presence/Absence	Count
No.	(24 Hr.)	Location	J ~C	***	Total	Free	Per 100 mls	CFU**/ml
1	1221	11th Street and Stoddard	na	2SP	na	na	Absent*	5
2	n/a	E Street and 10th Street	na	2SP	na	na	Absent*	<1

^{*}None detected

Respectfully submitted, Truesdail Laboratories, Inc.

Sherron Leno

Senior Microbiologist

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^{**}Colony-forming units

^{***}Sample Type: 2SP=Distribution Special

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INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

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REPORT

5-2-07

Report Date:

4/11/03

)OQ -----

Date Received:

3/27/03

-C 27

Laboratory No.:

915884

3 Drinking Waters

Attn: Con Arrieta

City of San Bernardino 300 North D Street

San Bernardino, CA 92402

Project: Elco Perris and Home Ave. Pipeline Disinfection C.O. #8737

Collection Date:

3/27/03

Technician:

Eric Dalpiaz

Analysis Date:

3/27/03

Time: 1815

·

Completion Date:

3/28/03

Time: 1815

Coliform Test

3/31/03

Time:

0700

HPC, PCA, 4 Days @ 35°C

Investigation: Chromogenic Substrate Coliform Test <u>APHA Standard Methods for the Examination of Water and Wastewater</u>, 18th Ed., 1992 Method 9223B Colisure Presence/Absence; Heterotrophic Plate Count, SM 9215B

RESULTS

	Sample Time	Sample	1	Sam. Type	1		Coliform Bacteria Presence/Absence Per 100 mls	Plate Count CFU**/ml
No.	(24 Hr.)	Location	+ -	<u> </u>	TULAT	1166	rei 100 mis	1010 /////
P-1	0900	Perris & Home Blow-Off	na	2SP	0.5	na	Absent*	5
P-2	0845	Perris & Orange Flushing	na	2SP	0.5	na	Absent*	5
		Port						
10-l	0915	10th & I Hydrant (Jones	na	2SP	0.5	na	Absent*	<1
		Head					·	

^{*}None detected

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Sherron Leno

Senior Microbiologist

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City of San Bernardino

300 North D Street

San Bernardino, CA 92402

Attn: Con Arrieta

Report Date:

5/13/03

Date Received:

5/9/03

FILED BY_

Laboratory No.:

917479

Project: Elco 10th and "I" Street Disinfection C.O. #8737

One (1) Drinking Water

Collection Date:

5/9/03

Technician:

Eric Dalpiaz

Analysis Date:

5/9/03

Time: 1600 1000

Completion Date:

5/10/03

Time:

Coliform Test

5/12/03

Time:

0700

HPC, PCA, 3 Days @ 35°C

Investigation: Chromogenic Substrate Coliform Test APHA Standard Methods for the Examination of Water and Wastewater, 18th Ed., 1992 Method 9223B Colilert 18 Hour Presence/Absence: Heterotrophic Plate Count, SM 9215B

RESULTS

	Sample	·		Sam.	Chlorine		Coliform Bacteria	Plate
	Time	Sample		Туре	Residua	al (mg/L)	Presence/Absence	Count
No.	(24 Hr.)	Location	l "C	***	Total	/Free	Per 100 mls	CFU**/ml
							'	
PH	1308	Perris and Home Street	na	2SP	na	0.7	Absent*	<1*
PO	1320	Perris and Orange Street	na	2SP	na	0.7	Absent*	<1*

^{*}None detected

Respectfully submitted,

Truesdail Laboratories, Inc.

Sherron Leno

Senior Microbiologist

^{**}Colony-forming units

^{***}Sample Type: 2SP=Distribution Special

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES

Established 1931

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REPORTSTROE DATE_6.18.50___

Report Date:

5/13/03

City of San Bernardino 300 North D Street

San Bernardino, CA 92402

Attn: Con Arrieta

Date Received:

5/9/03

FILED BY __

Laboratory No.:

917476

Elco/USEPA 10th and Garner Main Disinfection-C.O. #8737

UU

One (1) Drinking Water

Collection Date:

5/9/03

Technician:

Eric Dalpiaz

Analysis Date:

5/9/03

Time: 1600 1000

1020

Coliform Test

Completion Date:

5/10/03 5/12/03

Time: Time:

HPC, PCA, 48 Hrs. @ 35°C

Investigation: Chromogenic Substrate Coliform Test APHA Standard Methods for the Examination of Water and Wastewater, 18th Ed., 1992 Method 9223B Colilert 18 Hour Presence/Absence; Heterotrophic Plate Count SM 9215B

RESULTS

ID	Sample Time (24 Hr.)	Sample Location	i	Sam. Type ***	Chlo Residua Total	- 1	Coliform Bacteria Presence/Absence Per 100 mls	Plate Count CFU**/ml
		End if 24" Main in 9th St.	na	2SP	na	0.7	Absent*	<1*
9th	1340	Eliu ii 24 Maii iii otti ot.	110	201				
			-					

^{*}None detected

**Colony-forming units

***Sample Type: 2SP=Distribution Special

Respectfully submitted,

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Sherron Leno

Senior Microbiologist

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